

## Abstract

The invention relates to a device and method for adjusting two object lenses (19, 20) in the 4Pi system of a preferably confocal scanning microscope (1), wherein at least one object lens (19, 20) is movable with respect to the other object lens (20, 19). The aim of said invention is to carry out a simple adjustment and ensure the long-term high stability thereof. For this purpose, a reference object is formed in the pupils of the object lens (19, 20), a Fourier image is produced for each object lens (19, 20) from the mappings of the reference object and two Fourier images of the reference object are superimposed by displacing the object lenses (19, 20) with respect to each other.